

Special Issue

Antimicrobial Agents and the Quest for Resistance Breakthroughs

Message from the Guest Editor

The need for novel antimicrobial agents is pressing due to the increasing prevalence antimicrobial-resistant microorganisms. Antimicrobial resistance (AMR) is a major global health threat, exacerbated by antimicrobial overuse and misuse. AMR occurs when microorganisms evolve to become resistant to the drugs designed to kill them, leading to the development of so-called "superbugs" which are difficult or impossible to treat. These "superbugs" can cause severe infections and are a major concern for public health. To combat the growing problem of AMR, it is crucial to develop new antimicrobial agents that can effectively kill these resistant microorganisms. These could include new types of antibiotics, as well as antivirals, antifungals, and antiparasitics. In addition to developing these agents, it is also important to ensure that they are used responsibly to minimize the development of resistance. Overall, the need for novel antimicrobial agents is crucial for protecting public health and addressing the global threat of AMR.

Guest Editor

Dr. Inês Bártolo

Instituto de Investigação do Medicamento (iMed.U LISBOA), Faculty of Pharmacy, Lisbon University, 1649-019 Lisbon, Portugal

Deadline for manuscript submissions

30 September 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/237797

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)